

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/050433

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B62D1/04 B60K28/00 B60T8/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B62D B60K B60T B60G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/023353 A1 (BADARNEH ZIAD) 30 January 2003 (2003-01-30) paragraph '0112! paragraph '0132! - paragraph '0145! paragraph '0189! - paragraph '0196! paragraph '0202! figure 15	1, 8, 9
Y	DE 39 41 665 A (BAYERISCHE MOTOREN WERKE AG) 20 June 1991 (1991-06-20) column 2, line 29 - line 40 figure 2	1, 8, 9
Y	DE 197 47 269 A (BAYERISCHE MOTOREN WERKE AG) 29 April 1999 (1999-04-29) column 1, line 45 - line 50 column 4, line 2 - line 5 figure 1	1, 8, 9
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the International search

17 August 2004

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30/08/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 360 149 B1 (DYBALSKI RONALD HENRY ET AL) 19 March 2002 (2002-03-19) column 4, line 46 - line 50 figure 4 -----	1
A	EP 1 078 831 A (MAZDA MOTOR) 28 February 2001 (2001-02-28) paragraph '0070! - paragraph '0071! figure 2 -----	1
A	US 4 884 651 A (HARADA YASUHIRO ET AL) 5 December 1989 (1989-12-05) figure 19 -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/050433

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2003023353	A1	30-01-2003	NO 20000834 A	20-08-2001
			NO 20003579 A	20-08-2001
			NO 20005119 A	20-08-2001
			AU 3622401 A	27-08-2001
			CA 2399950 A1	23-08-2001
			CN 1424968 T	18-06-2003
			EP 1257433 A1	20-11-2002
			JP 2003531046 T	21-10-2003
			WO 0160650 A1	23-08-2001
			NO 20004771 A	25-03-2002
			NO 20023929 A	19-08-2002
DE 3941665	A	20-06-1991	DE 3941665 A1	20-06-1991
DE 19747269	A	29-04-1999	DE 19747269 A1	29-04-1999
US 6360149	B1	19-03-2002	AU 1843100 A	26-06-2000
			AU 2046600 A	26-06-2000
			AU 2168000 A	26-06-2000
			AU 2588300 A	26-06-2000
			WO 0034107 A1	15-06-2000
			WO 0034104 A1	15-06-2000
			WO 0034106 A1	15-06-2000
			WO 0034105 A1	15-06-2000
EP 1078831	A	28-02-2001	JP 2001058564 A	06-03-2001
			EP 1078831 A2	28-02-2001
			US 6409287 B1	25-06-2002
US 4884651	A	05-12-1989	JP 2095907 C	02-10-1996
			JP 8009305 B	31-01-1996
			JP 63031858 A	10-02-1988
			JP 2502984 B2	29-05-1996
			JP 63034270 A	13-02-1988
			DE 3724574 A1	04-02-1988